QC ABSTRACT

NAME OF WORK: Improvements to Drains of 4th Main Road of Pampa Extension to 5th Main Road of Pampa Extension in Ward No 7.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Block(400*100*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	Precast (200mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	PCC(M15)	Compressive Strength(7days and 28days)	2 set /6-15 cum	12.6	4	4

Asst Exe. Engr.
DE(Tech)

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-10-19-75** **Date: 06-07-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of 4th Main Road of Pampa Extension to 5th Main Road of Pampa Extension in Ward No 7.
Agency	:	Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/234/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-07-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	04-07-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.28	–
2	Finess by Air permeablity method (m^2/kg,Min)	283.7	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-10-19-75** **Date: 01-08-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of 4th Main Road of Pampa Extension to 5th Main Road of Pampa Extension in Ward No 7.
Agency	:	Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/234/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-07-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	04-07-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-10-19-75** **Date: 06-07-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of 4th Main Road of Pampa Extension to 5th Main Road of Pampa Extension in Ward No 7.
Agency	:	Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/234/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-07-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-07-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	251	251	1.7	98.3	90-100
3	20 mm	7341	7592	50.6	49.4	30-70
4	10 mm	4739	12331	82.2	17.8	10-35
5	4.75 mm	2317	14648	97.7	2.3	0-5
6	Pan	352	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-10-19-75** **Date: 06-07-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.1	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.48	_
5	Bulk Density(Compacted) (Kg/l)	1.51	_
6	Water Absorption(%)	0.23	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-10-19-75** **Date: 06-07-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of 4th Main Road of Pampa Extension to 5th Main Road of Pampa Extension in Ward No 7.
Agency	:	Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560032.
Customer Reference	:	BBMP/EE/BTP/WO/234/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-07-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-07-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	193	193	3.9	96.1	90-100
3	10 mm	2406	2599	52.0	48.0	25-55
4	4.75 mm	2141	4740	94.8	5.2	0-10
5	Pan	260	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-10-19-75** **Date: 06-07-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.3	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.49	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.23	_
7	Aggregate crushing Value(%)	23.7	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Approved.
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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-10-19-75** **Date: 06-07-20**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of 4th Main Road of Pampa Extension to 5th Main Road of Pampa Extension in Ward No 7.

Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/234/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-07-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 03-07-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	28	28	2.8	97.2	90-100	90-100	90-100	95-100
3	2.36 mm	104	132	13.2	86.8	60-95	75-100	85-100	95-100
4	1.18 mm	173	305	30.5	69.5	30-70	55-90	75-100	90-100
5	600 micron	221	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	237	763	76.3	23.7	5-20	8-30	12-40	15-50
7	150 micron	162	925	92.5	7.5	0-10	0-10	0-10	0-15
8	Pan	75	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-10-19-75 Date: 06-07-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.32	_
2	Specific Gravity	2.53	_
3	Material finer than 75 micron(%)	5.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2020-10-19-75** **Date: 18-08-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of 4th Main Road of Pampa Extension to 5th Main Road of Pampa Extension in Ward No 7.
Agency	:	Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/234/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-08-20
Sample Type/Size	:	Solid concrete blocks size (400X100X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	14-08-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	399	102	199	8099	31.856	3933.3	3936.8	Not less than 1800Kg/m^3
2	402	102	202	8283	32.551	3930.0		
3	398	99	202	7959	31.415	3947.0		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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ID : CP-2020-10-19-75 Date: 18-08-20

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	99	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	400	101	203	
3	403	101	200	
4	401	103	202	
5	404	102	202	
6	404	103	200	
7	400	101	199	
8	401	101	200	
9	403	102	202	
10	403	101	201	
11	399	101	200	
12	401	99	203	
13	400	102	199	
14	403	100	201	
15	399	101	199	
16	403	100	203	
17	404	103	202	
18	402	101	199	
19	403	101	200	
20	399	101	199	
Average of 20	**402**	**101**	**201**	

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: CP-2020-10-19-75 Date: 18-08-20

MPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	99	39741	164.7	4.1	4.1
2	400	101	40557	166.9	4.1	
3	403	101	40551	165.5	4.1	
4	401	103	41287	166.9	4.0	
5	404	102	41108	169.1	4.1	
6	404	103	41438	170.3	4.1	
7	400	101	40273	162.0	4.0	
8	401	101	40584	167.0	4.1	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2020-10-19-75** **Date: 05-08-20**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of 4th Main Road of Pampa Extension to 5th Main Road of Pampa Extension in Ward No 7.

Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/234/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-08-20

Sample Type /Size : Precast Cover Slab (200mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 01/08/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	175.51	200.48	2.116	24189	180.9	7.5	7.0	8.7
2	Cover Slab-2	175.49	200.52	2.122	24183	182.3	7.5	7.0	8.8
3	Cover Slab-3	175.50	200.51	2.118	24186	181.5	7.5	7.0	8.7

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2020-10-19-75**	**Date: 10-09-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Drains of 4th Main Road of Pampa Extension to 5th Main Road of Pampa Extension in Ward No 7.	
Agency	:	Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560032.	
Customer's Reference	:	BBMP/EE/BTP/WO/234/2019-20	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	05-09-20	
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	05/09/2020	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

Sig.
Date

R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

BBMP, N.D.
DE(Tech)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-19-75** **Date: 18/07/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of 4th Main Road of Pampa Extension to 5th Main Road of Pampa Extension in Ward No 7.

Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/234/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-07-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	11/07/2020	18/07/2020	149.06 X 151.69 X 149.72	22611	**8.545**	291.0	12.9	12.7
2	PCC	M15	11/07/2020	18/07/2020	150.66 X 151.45 X 149.18	22819	**8.095**	293.1	12.8	
3	PCC	M15	11/07/2020	18/07/2020	151.58 X 150.51 X 150.97	22815	**8.077**	285.7	12.5	

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DE(W)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL PRO BANGALORE Sig. Date

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

CIVIL PRO

AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-10-19-75 **Date: 08/08/2020**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of 4th Main Road of Pampa Extension to 5th Main Road of Pampa Extension in Ward No 7.
Agency	:	Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/234/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-07-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	11/07/2020	08/08/2020	149.81 X 149.90 X 151.02	22456	**8.011**	387.1	17.2	17.2
2	PCC	M15	11/07/2020	08/08/2020	151.40 X 149.65 X 151.75	22657	**8.741**	386.7	17.1	
3	PCC	M15	11/07/2020	08/08/2020	149.64 X 150.42 X 151.39	22509	**8.356**	392.5	17.4	

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AE(W-1)

Assistant Executive Engineer
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Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-19-75** **Date: 18/07/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of 4th Main Road of Pampa Extension to 5th Main Road of Pampa Extension in Ward No 7.

Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/234/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-07-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	11/07/2020	18/07/2020	151.92 X 151.53 X 151.10	23020	**8.545**	292.5	12.7	12.5
2	PCC	M15	11/07/2020	18/07/2020	150.47 X 150.98 X 151.12	22718	**8.095**	289.8	12.8	
3	PCC	M15	11/07/2020	18/07/2020	149.94 X 149.80 X 151.68	22461	**8.077**	272.7	12.1	

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Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-19-75** **Date: 08/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of 4th Main Road of Pampa Extension to 5th Main Road of Pampa Extension in Ward No 7.

Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/234/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-07-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	11/07/2020	08/08/2020	149.12 X 151.60 X 151.43	22606	**8.011**	385.0	17.0	17.5
2	PCC	M15	11/07/2020	08/08/2020	151.88 X 151.70 X 150.87	23040	**8.741**	413.3	17.9	
3	PCC	M15	11/07/2020	08/08/2020	149.84 X 150.49 X 149.37	22550	**8.356**	396.8	17.6	

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A.N.D.
AE (Lab)

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CIVIL Pro
Sig.....
Date.....
BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****